

**Virginia Division of Consolidated Laboratory Services (DCLS)**  
**LABORATORY CERTIFICATION/ACCREDITATION PROGRAMS**  
**(1VAC30-41, 1VAC30-45, and 1VAC30-46)**

**INFORMATION NOTICE CONCERNING**  
**CLEAN WATER ACT METHODS UPDATE RULE (MUR) 2021**  
**AND RECENT DRINKING WATER EXPEDITED METHOD APPROVALS**  
**September 12, 2022**

The US Environmental Protection Agency (EPA) has published a revised **Clean Water Act (CWA) Methods Update Rule (MUR)**. The MUR **adds** new methods, which may be used for CWA compliance, and **removes and replaces** methods with only the most current revision of the publisher's method. The MUR parallels recent **Drinking Water Expedited Method Approvals** published at Appendix A to Subpart C of 40 CFR Part 141, which approved many of the same methods.

The Virginia Environmental Laboratory Accreditation Program (VELAP) will **require** updates to method revisions in accordance with the MUR at a future date, referred to as the 2021 MUR Implementation Date. The MUR Implementation Date will be announced once it is established. These future updates are in accordance with:

- The [CWA 2021 MUR](#) and
- Recent Drinking Water Expedited Method Approvals located at [Appendix A to Subpart C of 40 CFR Part 141](#)

A list of methods associated with this MUR is in Table 1 below.

Virginia's Department of Environmental Quality (DEQ) will accept use of revised methods, as listed in Table 1, for Clean Water Act compliance in advance of the 2021 MUR Implementation Date. Drinking water methods approved at Appendix A to Subpart C of 40 CFR 141 are acceptable for Safe Drinking Water Act compliance.

To use the revised methods before the 2021 MUR Implementation Date, laboratories may request a change in scope by submitting a Request for Early MUR Transition, VELAP Form #46015, along with a Standard Operating Procedure demonstrating compliance with the latest approved revision. The form is available on [the VELAP webpage](#). This is an abbreviated change in scope procedure for the updates listed in Table 1 only. This abbreviated procedure omits requirements for proficiency testing and demonstration of capability based on the similarity of the method revision to the currently certified/accredited method. Fees for the change in scope processing will not be required. A revised certificate will be issued by VELAP after review of the SOP and resolution of any concerns.

When the 2021 MUR Implementation Date is established and announced, VELAP will provide revised instructions for this update process. Submission of the SOP and VELAP Form #46015 will not be required for updates made after the implementation date is established and announced.

Laboratories with secondary accreditation under 1VAC30-46 need to only submit Form #46015 and the current primary certificate supporting the change in scope request.

Laboratories that use a method for testing of both non-potable water samples and drinking water samples are encouraged to make simultaneous updates to testing for both matrices, whenever the method is approved for both matrices.

Laboratories seeking to add methods not currently on the laboratory's certificate to their scope of certification or accreditation may do so by contacting the Laboratory Certification Office for information on how to request a change in scope. Fees apply for changes made in this manner.

Questions may be directed to: [Lab\\_Cert@dgs.virginia.gov](mailto:Lab_Cert@dgs.virginia.gov).

**TABLE 1**

TABLE 1 IS A SUMMARY OF METHODS BEING UPDATED IN THE VELAP DATABASE UPON FULL IMPLEMENTATION OF THE 2021 CLEAN WATER ACT METHODS UPDATE RULE (MUR). ALL MATRICES IN THE VELAP DATABASE WILL BE UPDATED FOR THESE METHODS WHEN THE MUR IS FULLY IMPLEMENTED IN VIRGINIA. THE DATE FOR FULL IMPLEMENTATION WILL BE ANNOUNCED.

METHOD (OLD)	METHOD (NEW)	ANALYTES
ASTM D1067-11 2011	ASTM D1067-16	Alkalinity as CaCO <sub>3</sub>
ASTM D1126-12	ASTM D1126-17	Total Hardness as CaCO <sub>3</sub>
ASTM D1426-08 (A) (AS HACH 8038)	ASTM D1426-15 (A) (AS HACH 8038)	Ammonia as N
ASTM D1687-12 (A)	ASTM D1687-17 (A)	Chromium VI
ASTM D3590-11 (A)	ASTM D3590-17 (A)	Kjeldahl Nitrogen, Total (TKN)
ASTM D3590-11 MINUS SM4500-NH <sub>3</sub>	ASTM D3590-17 MINUS SM4500-NH <sub>3</sub>	Organic Nitrogen
ASTM D4282-02	ASTM D4282-15	Cyanide, Free
ASTM D4327-03	ASTM D4327-17	Bromide; Chloride; Fluoride; Nitrate as N; Sulfate
ASTM D516-11	ASTM D516-16	Sulfate
ASTM D516-11 (AS HACH 8051)	ASTM D516-16 (AS HACH 8051)	Sulfate
ASTM D516-11 (AS SEAL EPA-165-A)	ASTM D516-16 (AS SEAL EPA-165-A)	Sulfate
ASTM D5174-97	ASTM D5174-07	Uranium
ASTM D6919-09	ASTM D6919-17	Ammonia as N
ASTM D6919-09	ASTM D6919-17	Calcium; Magnesium; Potassium; Sodium
ASTM D7065-11	ASTM D7065-17	Nonylphenol
ASTM D7237-10	ASTM D7237-15 (A)	Cyanide, Free
ASTM D7511-12	ASTM D7511-12(17)	Cyanide, Total
SM 2540 B 2011	SM 2540 B 2015	Residue, Total
SM 2540 C 2011	SM 2540 C 2015	Residue, Filterable (TDS)
SM 2540 D 2011	SM 2540 D 2015	Residue, Nonfilterable (TSS)

SM 2540 E 2011	SM 2540 E 2015	Residue, Volatile; Volatile Suspended Solids
SM 2540 F 2011	SM 2540 F 2015	Residue, Settleable
SM 4500 CN C 2011	SM 4500 CN C 2016	Cyanide, Total - prep
SM 4500 CN E 2011	SM 4500 CN E 2016	Cyanide, Total
SM 4500 CN F 2011	SM 4500 CN F 2016	Cyanide, Total
SM 4500 CN G 2011	SM 4500 CN G 2016	Cyanide, Available
SM 4500 NO3 D 2011	SM 4500 NO3 D 2016	Nitrate as N
SM 4500 NO3 E 2011	SM 4500 NO3 E 2016	Nitrate-Nitrite
SM 4500 NO3 F 2011	SM 4500 NO3 F 2016	Nitrate as N
SM 4500 NO3 F 2011	SM 4500 NO3 F 2016	Nitrate-Nitrite
SM 4500 NO3 F 2011	SM 4500 NO3 F 2016	Nitrite as N
SM 4500 NO3 F 2011 (AS ASTORIA A173)	SM 4500 NO3 F 2016 (AS ASTORIA A173)	Nitrate-Nitrite
SM 4500 NO3 F 2011 MINUS EPA 353.2	SM 4500 NO3 F 2016 MINUS EPA 353.2	Nitrate as N
SM 4500 NO3 F 2011 MINUS SM 4500-NO2 B 2011 (CALC)	SM 4500 NO3 F 2016 MINUS SM 4500-NO2 B-2011 CALC	Nitrate as N
SM 4500 NO3 H 2011	SM 4500 NO3 H 2016	Nitrate-Nitrite
SM 4500 O G 2011	SM 4500 O G 2016	Oxygen, Dissolved (DO)
SM 5210 B 2011	SM 5210 B 2016	Biochemical Oxygen Demand (BOD)
SM 5210 B 2011	SM 5210 B 2016	Carbonaceous Biochemical Oxygen Demand (CBOD)
SM 5310 B 2011	SM 5310 B 2014	Dissolved Organic Carbon (DOC) [DW only]
SM 5310 B 2011	SM 5310 B 2014	Organic Carbon, Total (TOC)
SM 5310 C 2011	SM 5310 C 2014	Dissolved Organic Carbon (DOC) [DW only]
SM 5310 C 2011	SM 5310 C 2014	Organic Carbon, Total (TOC)
SM 9221 B 2006	SM 9221 B 2014	Total Coliforms
SM 9221 D 1999 [DW only]	SM 9221 D 2014 [DW only]	Total Coliforms
SM 9221 E 2006 (E+C)	SM 9221 E 2014	Fecal Coliform
SM 9221 F 2006	SM 9221 F 2014	Escherichia coli
SM 9222 B 1997	SM 9222 B 2015	Total Coliforms [DW only]
SM 9222 D 2006	SM 9222 D 2015	Fecal Coliform